GenCore version 4.5

OM protein - protein search, using sw model

Run on: March 1, 2001, 15:49:50 ; Search time 140.11 Seconds
(without alignments)
5.127 Million cell updates/sec

Title: US-09-331-631A-8_COPY_80_119
Perfect score: 225
Sequence: 1 PEDPQRRYEECQQECRQQEERQQPQCQQRCLKRFEQEQQQ 40

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 174772 seqs, 17957048 residues

Total number of hits satisfying chosen parameters: 174772

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	216	96.0	587	1	US-07-955-905A-23	Sequence 23, Appl
2	119	52.9	566	1	US-07-955-905A-2	Sequence 2, Appli
3	119	52.9	566	1	US-07-955-905A-22	Sequence 22, Appl
4	71	31.6	361	1	US-08-415-751-4	Sequence 4, Appli
5	69	30.7	1162	2	US-08-728-323A-2	Sequence 2, Appli
6	67.5	30.0	2703	1	US-08-185-432-19	Sequence 19, Appl
7	67	29.8	1898	1	US-08-056-200-94	Sequence 94, Appl
8	67	29.8	1898	2	US-08-800-644-94	Sequence 94, Appl
9	65.5	29.1	303	1	US-08-109-391A-2	Sequence 2, Appli
10	65.5	29.1	303	1	US-08-459-019A-2	Sequence 2, Appli
11	65.5	29.1	303	2	US-08-460-428A-2	Sequence 2, Appli
12	65.5	29.1	303	3	US-08-458-860A-2	Sequence 2, Appli
13	65.5	29.1	404	1	US-08-453-477-2	Sequence 2, Appli
14	65.5	29.1	404	1	US-08-453-461-2	Sequence 2, Appli
15	65	28.9	360	2	US-08-531-927B-2	Sequence 2, Appli
16	65	28.9	816	2	US-08-267-803B-9	Sequence 9, Appli
17	63.5	28.2	788	2	US-08-918-914-4	Sequence 4, Appli
18	62	27.6	428	1	US-08-190-802A-29	Sequence 29, Appl
19	62	27.6	513	3	US-09-100-193-3	Sequence 3, Appli
20	60	26.7	369	2	US-08-991-300-2	Sequence 2, Appli
21	59	26.2	678	4	PCT-US93-03027-3	Sequence 3, Appli
22	58	25.8	591	3	US-08-965-903B-2	Sequence 2, Appli
23	58	25.8	1350	2	US-08-319-866-9	Sequence 9, Appli
24	57.5	25.6	760	1	US-08-195-152-2	Sequence 2, Appli
25	57	25.3	219	2	US-08-816-605-2	Sequence 2, Appli
26	57	25.3	255	1	US-08-236-918A-8	Sequence 8, Appli
27	57	25.3	255	2	US-08-816-605-9	Sequence 9, Appli
28	57	25.3	255	4	PCT-US96-03965-8	Sequence 8, Appli
29	57	25.3	344	5	5210183-2	Patent No. 5210183
30	57	25.3	683	5	5210183-3	Patent No. 5210183
31	57	25.3	3144	1	US-08-246-982A-6	Sequence 6, Appli
32	57	25.3	3144	1	US-08-453-265-6	Sequence 6, Appli
33	57	25.3	3144	2	US-08-457-273B-42	Sequence 42, Appl
34	57	25.3	3144	3	US-08-556-419-21	Sequence 21, Appl
35	56.5	25.1	376	5	5180810-1	Patent No. 5180810
36	56	24.9	76	5	5273901-11	Patent No. 5273901
37	56	24.9	76	5	5482709-10	Patent No. 5482709
38	56	24.9	542	1	US-07-814-964-13	Sequence 13, Appl
39	56	24.9	542	1	US-08-258-442-13	Sequence 13, Appl
40	56	24.9	542	1	US-08-328-809-8	Sequence 8, Appli
41	56	24.9	542	4	PCT-US92-11107-13	Sequence 13, Appl
42	56	24.9	737	1	US-08-185-432-2	Sequence 2, Appli
43	56	24.9	737	1	US-08-185-432-4	Sequence 4, Appli
44	55.5	24.7	158	2	US-08-618-911-6	Sequence 6, Appli
45	55.5	24.7	731	3	US-09-115-446-2	Sequence 2, Appli

ALIGNMENTS

```
RESULT   1
US-07-955-905A-23
; Sequence 23, Application US/07955905A
; Patent No. 5770433
;  GENERAL INFORMATION:
;    APPLICANT:
;    TITLE OF INVENTION:  RECOMBINANT 47 AND 31 kD COCOA PROTEINS AND
;    TITLE OF INVENTION:  PRECURSOR
;    NUMBER OF SEQUENCES:  28
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25 (EPO)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/955,905A
;      FILING DATE:  21-JAN-1993
;      CLASSIFICATION:  435
;  INFORMATION FOR SEQ ID NO:  23:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  587 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    ORIGINAL SOURCE:
;      ORGANISM:  Gossypium hirsutum
;    FEATURE:
;      NAME/KEY:  Protein
;      LOCATION:  1..587
;      OTHER INFORMATION:  /note= "Vicilin from G. hirsutum"
US-07-955-905A-23


  Query Match             96.0%;  Score 216;  DB 1;  Length 587;
  Best Local Similarity   92.5%;  Pred. No. 1.8e-17;
  Matches   37;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 PEDPQRRYEECQQECRQQEERQQPQCQQRCLKRFEQEQQQ 40
           |||||||||||||||||||||:|||||||:|||||:|||
Db      79 PEDPQRRYEECQQECRQQEERQRPQCQQRCIKRFEQQQQQ 118


RESULT   2
US-07-955-905A-2
; Sequence 2, Application US/07955905A
; Patent No. 5770433
;  GENERAL INFORMATION:
;    APPLICANT:
;    TITLE OF INVENTION:  RECOMBINANT 47 AND 31 kD COCOA PROTEINS AND
;    TITLE OF INVENTION:  PRECURSOR
;    NUMBER OF SEQUENCES:  28
```

```
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25 (EPO)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/955,905A
;      FILING DATE:  21-JAN-1993
;      CLASSIFICATION:  435
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  566 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-07-955-905A-2


  Query Match             52.9%;  Score 119;  DB 1;  Length 566;
  Best Local Similarity   45.0%;  Pred. No. 1.8e-06;
  Matches   18;  Conservative   14;  Mismatches    6;  Indels    2;  Gaps    1;

Qy       3 DPQRRYEECQQECRQQ--EERQQPQCQQRCLKRFEQEQQQ 40
           ||:::||:||: |  :  |||:| ||:||| : ::::|:|
Db      37 DPRQQYEQCQRRCESEATEEREQEQCEQRCEREYKEQQRQ 76


RESULT   3
US-07-955-905A-22
; Sequence 22, Application US/07955905A
; Patent No. 5770433
;  GENERAL INFORMATION:
;    APPLICANT:
;    TITLE OF INVENTION:  RECOMBINANT 47 AND 31 kD COCOA PROTEINS AND
;    TITLE OF INVENTION:  PRECURSOR
;    NUMBER OF SEQUENCES:  28
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25 (EPO)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/955,905A
;      FILING DATE:  21-JAN-1993
;      CLASSIFICATION:  435
;  INFORMATION FOR SEQ ID NO:  22:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  566 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    ORIGINAL SOURCE:
;      ORGANISM:  Theobroma cacao
;    FEATURE:
;      NAME/KEY:  Protein
;      LOCATION:  1..566
;      OTHER INFORMATION:  /note= "67 kD Precursor Protein"
US-07-955-905A-22


  Query Match             52.9%;  Score 119;  DB 1;  Length 566;
  Best Local Similarity   45.0%;  Pred. No. 1.8e-06;
  Matches   18;  Conservative   14;  Mismatches    6;  Indels    2;  Gaps    1;

Qy       3 DPQRRYEECQQECRQQ--EERQQPQCQQRCLKRFEQEQQQ 40
           ||:::||:||: |  :  |||:| ||:||| : ::::|:|
Db      37 DPRQQYEQCQRRCESEATEEREQEQCEQRCEREYKEQQRQ 76


RESULT   4
US-08-415-751-4
; Sequence 4, Application US/08415751
; Patent No. 5643772
;  GENERAL INFORMATION:
;    APPLICANT:  PETERSEN, CAROLYN
;    APPLICANT:  LEECH, JAMES
;    APPLICANT:  NELSON, RICHARD, C.
;    APPLICANT:  GUT, JIRI
;    TITLE OF INVENTION:  POLYPEPTIDES BINDING ANTI-
;    TITLE OF INVENTION:  CRYPTOSPORIDIUM ANTIBODIES, DNA
;    TITLE OF INVENTION:  AND RNA ENCODING THEM, HYBRID
;    TITLE OF INVENTION:  VECTOR AND TRANSFORMED HOST AND
;    TITLE OF INVENTION:  METHODS FOR IMMUNOTHERAPY AND
;    TITLE OF INVENTION:  DIAGNOSIS AND KIT
;    NUMBER OF SEQUENCES:  50
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PHILLIPS, MOORE, LEMPIO & FINLEY
;      STREET:  385 Sherman Avenue, Suite 6
;      CITY:  Palo Alto
;      STATE:  California
;      COUNTRY:  United States of America
;      ZIP:  94306-1840
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette - 3.5 inch, 1.44 Kb storage
;      COMPUTER:  PC
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  Wordperfect 5.1
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/415,751
;      FILING DATE:  03-APR-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/071,880
;      FILING DATE:  June 1, 1993
;      APPLICATION NUMBER:  07/891,301
;      FILING DATE:  May 29, 1992
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Hana Dolezalova
;      REGISTRATION NUMBER:  30,518
;      REFERENCE/DOCKET NUMBER:  480.19-2 (HHD)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 324-1677
;      TELEFAX:  (415) 324-1678
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  361 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    ORIGINAL SOURCE:
;      ORGANISM:  Cryptosporidium parvum
;    FEATURE:
;      NAME/KEY:  Positions coded by nonsense codons are
;      NAME/KEY:  identified as Xaa.
US-08-415-751-4


  Query Match             31.6%;  Score 71;  DB 1;  Length 361;
  Best Local Similarity   35.0%;  Pred. No. 0.33;
  Matches   14;  Conservative   11;  Mismatches   15;  Indels    0;  Gaps    0;

Qy       1 PEDPQRRYEECQQECRQQEERQQPQCQQRCLKRFEQEQQQ 40
           |:  |    :  ||: ::|:::|| |||:: |   | : ||
Db     147 PQQQQHXSQXLQQQQQKQQQQQQQQQCQRQLLLPRETKXQQ 186


RESULT   5
US-08-728-323A-2
; Sequence 2, Application US/08728323A
; Patent No. 5948676
;  GENERAL INFORMATION:
;    APPLICANT:  Chang, Yuan
;    APPLICANT:  Bohenzky, Roy A.
;    APPLICANT:  Russo, James J.
;    APPLICANT:  Edelman, Isidore S.
```

```
;    APPLICANT:  Moore, Patrick S.
;    TITLE OF INVENTION:  Immediate Early Protein From Kaposi's
;    TITLE OF INVENTION:  Sarcoma-Associated Herpesvirus, DNA
;    TITLE OF INVENTION:  Encoding Same And Uses Thereof
;    NUMBER OF SEQUENCES:  21
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Cooper & Dunham LLP
;      STREET:  1185 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/728,323A
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  White, John P.
;      REGISTRATION NUMBER:  28,678
;      REFERENCE/DOCKET NUMBER:  0575/52268/JPW/MSC/SKS
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  212-278-0400
;      TELEFAX:  212-391-0525
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;     LENGTH: 1162 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-728-323A-2


  Query Match             30.7%;  Score 69;  DB 2;  Length 1162;
  Best Local Similarity   39.5%;  Pred. No. 1.7;
  Matches   15;  Conservative   12;  Mismatches   11;  Indels    0;  Gaps    0;

Qy       2 EDPQRRYEECQQECRQQEERQQPQCQQRCLKRFEQEQQ 39
           :  ::: :| ||: :||:|:|| : ||   :: |||||
Db     666 QQDEQQQDEQQQDEQQQDEQQQDEQQQDEQQQDEQEQQ 703


RESULT   6
US-08-185-432-19
; Sequence 19, Application US/08185432
; Patent No. 5750652
;  GENERAL INFORMATION:
;    APPLICANT:  Artavanis-Tsakonas, Spyridon
;    APPLICANT:  Busseau, Isabelle
;    APPLICANT:  Diederich, Robert J.
;    APPLICANT:  Xu, Tian
;    APPLICANT:  Matsuno, Kenji
;    TITLE OF INVENTION:  DELTEX PROTEINS, NUCLEIC ACIDS, AND
;    TITLE OF INVENTION:  ANTIBODIES, AND RELATED METHODS AND COMPOSITIONS
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PENNIE & EDMONDS
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10036-2711
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/185,432
;      FILING DATE:  21-JAN-1994
;      CLASSIFICATION:  530
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  7326-006
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 790-9090
;      TELEFAX:  (212) 869-8864/9741
;      TELEX:  66141 PENNIE
;  INFORMATION FOR SEQ ID NO:  19:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2703 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  protein
US-08-185-432-19


  Query Match             30.0%;  Score 67.5;  DB 1;  Length 2703;
  Best Local Similarity   37.8%;  Pred. No. 5.7;
  Matches   14;  Conservative   12;  Mismatches    6;  Indels    5;  Gaps    1;

Qy       4 PQRRYEECQQECRQQEERQQPQCQQRCLKRFEQEQQQ 40
             ||:: :: ||: :| :::|| | ||:      :|:|||
Db    2537 PQQQQQQQQQQQQQHQQQQQQQQQQQ-----QQQQQQ 2568


RESULT   7
US-08-056-200-94
; Sequence 94, Application US/08056200
; Patent No. 5616500
;  GENERAL INFORMATION:
;    APPLICANT:  Steinert, Peter M.
;    APPLICANT:  Lee, Seung-Chul
;    APPLICANT:  Kim, In-Gyu
;    APPLICANT:  Chung, Soo-Il
;    APPLICANT:  Park, Sang-Chul
;    TITLE OF INVENTION:  Trichohyalin and Transglutaminase-3 and
;    TITLE OF INVENTION:  Mehods of Using Same
;    NUMBER OF SEQUENCES:  117
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Knobbe, Martens, Olson & Bear
;      STREET:  620 Newport Center Drive, Sixteenth Floor
;      CITY:  Newport Beach
;      STATE:  CA
;      COUNTRY:  U.S.A.
;      ZIP:  92660
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/056,200
;      FILING DATE:  30-APR-1993
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Fedrick, Michael F.
;      REGISTRATION NUMBER:  36,799
;      REFERENCE/DOCKET NUMBER:  NIH054.001A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (714) 760-0404
;      TELEFAX:  (714) 760-9502
;  INFORMATION FOR SEQ ID NO:  94:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1898 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-056-200-94
```

```
  Query Match             29.8%;  Score 67;  DB 1;  Length 1898;
  Best Local Similarity   40.0%;  Pred. No. 4.7;
  Matches   16;  Conservative   13;  Mismatches    7;  Indels    4;  Gaps    2;

Qy      2 EDPQ-RRYEECQQECRQQEERQQPQCQQRCLKRFEQEQQQ 40
          |:|: || :| :.::|||::|| || : |   | | |:|:::
Db   1113 EEPEKRRRQERERQCREEEELQQEEEQ---LLREEREKRR 1149


RESULT   8
US-08-800-644-94
; Sequence 94, Application US/08800644
; Patent No. 5958752
;  GENERAL INFORMATION:
;    APPLICANT:  Steinert, Peter M.
;    APPLICANT:  Lee, Seung-Chul
;    APPLICANT:  Kim, In-Gyu
;    APPLICANT:  Chung, Soo-Il
;    APPLICANT:  Park, Sang-Chul
;    TITLE OF INVENTION:  Trichohyalin and Transglutaminase-3 and
;    TITLE OF INVENTION:  Mehods of Using Same
;    NUMBER OF SEQUENCES:  117
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Knobbe, Martens, Olson & Bear
;      STREET:  620 Newport Center Drive, Sixteenth Floor
;      CITY:  Newport Beach
;      STATE:  CA
;      COUNTRY:  U.S.A.
;      ZIP:  92660
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/800,644
;      FILING DATE:  14-FEB-1997
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/056,200
;      FILING DATE:  30-APR-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Fedrick, Michael F.
;      REGISTRATION NUMBER:  36,799
;      REFERENCE/DOCKET NUMBER:  NIH054.001A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (714) 760-0404
;      TELEFAX:  (714) 760-9502
;  INFORMATION FOR SEQ ID NO:  94:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1898 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-800-644-94


  Query Match             29.8%;  Score 67;  DB 2;  Length 1898;
  Best Local Similarity   40.0%;  Pred. No. 4.7;
  Matches   16;  Conservative   13;  Mismatches    7;  Indels    4;  Gaps    2;

Qy      2 EDPQ-RRYEECQQECRQQEERQQPQCQQRCLKRFEQEQQQ 40
          |:|: || :| :::|||::|| || : |   | | |:|:::
Db   1113 EEPEKRRRQERERQCREEEELQQEEEQ---LLREEREKRR 1149


RESULT   9
US-08-109-391A-2
; Sequence 2, Application US/08109391A
; Patent No. 5639876
;  GENERAL INFORMATION:
;    APPLICANT:  Tripp, Cynthia A.
;    APPLICANT:  Frank, Glenn R.
;    APPLICANT:  Grieve, Robert B.
;    TITLE OF INVENTION:  NUCLEIC ACID MOLECULES ENCODING NOVEL
;    TITLE OF INVENTION:  PARASITIC HELMINTH PROTEINS
;    NUMBER OF SEQUENCES:  17
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sheridan Ross & McIntosh
;      STREET:  1700 Lincoln St., Suite 3500
;      CITY:  Denver
;      STATE:  CO
;      COUNTRY:  U.S.A.
;      ZIP:  80203
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/109,391A
;      FILING DATE:  19-AUG-1993
;      CLASSIFICATION:  536
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Connell, Gary J.
;      REGISTRATION NUMBER:  32,020
;      REFERENCE/DOCKET NUMBER:  2618-13
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  303/863-9700
;      TELEFAX:  303/863-0223
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  303 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-109-391A-2


  Query Match             29.1%;  Score 65.5;  DB 1;  Length 303;
  Best Local Similarity   32.7%;  Pred. No. 1.2;
  Matches   17;  Conservative   12;  Mismatches   10;  Indels   13;  Gaps    2;

Qy      2 EDPQRR-----------YEE-CQQECRQQEERQQPQCQQRCLKRFEQEQQQ 40
            || :||            |||  |:: ||:|||:: : ::|  :|   ||::
Db    235 EDKERRMQEEEEQERLREYEEQIQEKLRQEEERERQEQERRQKERERMEQER 286


RESULT  10
US-08-459-019A-2
; Sequence 2, Application US/08459019A
; Patent No. 5686080
;  GENERAL INFORMATION:
;    APPLICANT:  Tripp, Cynthia A.
;    APPLICANT:  Frank, Glenn R.
;    APPLICANT:  Grieve, Robert B.
;    TITLE OF INVENTION:  NOVEL PARASITIC HELMINTH P4 PROTEINS
;    NUMBER OF SEQUENCES:  17
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sheridan Ross & McIntosh
;      STREET:  1700 Lincoln Street, #3500
;      CITY:  Denver
;      STATE:  CO
;      COUNTRY:  U.S.A.
;      ZIP:  80203
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/459,019A
;      FILING DATE:  06-JUN-1995
;      CLASSIFICATION:  536
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Connell, Gary J.
```

```
;      REGISTRATION NUMBER:  33,020
;      REFERENCE/DOCKET NUMBER:  2618-13-1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (303) 863-9700
;      TELEFAX:  (303) 863-0223
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  303 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-459-019A-2


  Query Match             29.1%;  Score 65.5;  DB 1;  Length 303;
  Best Local Similarity   32.7%;  Pred. No. 1.2;
  Matches   17;  Conservative   12;  Mismatches   10;  Indels   13;  Gaps    2;

Qy       2 EDPQRR------------YEE-CQQECRQQEERQQPQCQQRCLKRFEQEQQQ 40
           || :||             ||| |:: ||:|||:: : ::|  :|   ||::
Db     235 EDKERRMQEEEEQERLREYEEQIQEKLRQEEERERQEQERRQKERERMEQER 286


RESULT  11
US-08-460-428A-2
; Sequence 2, Application US/08460428A
; Patent No. 5912337
;  GENERAL INFORMATION:
;    APPLICANT:  Tripp, Cynthia A.
;    APPLICANT:  Frank, Glenn R.
;    APPLICANT:  Grieve, Robert B.
;    TITLE OF INVENTION:  NOVEL PARASITIC HELMINTH
;    TITLE OF INVENTION:  P22U PROTEINS
;    NUMBER OF SEQUENCES:  17
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sheridan Ross P.C.
;      STREET:  1700 Lincoln St., Suite 3500
;      CITY:  Denver
;      STATE:  CO
;      COUNTRY:  U.S.A.
;      ZIP:  80203
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/460,428A
;      FILING DATE:  02-JUN-1995
;      CLASSIFICATION:  536
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Connell, Gary J.
;      REGISTRATION NUMBER:  32,020
;      REFERENCE/DOCKET NUMBER:  2618-13-3
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  303/863-9700
;      TELEFAX:  303/863-0223
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  303 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-460-428A-2


  Query Match             29.1%;  Score 65.5;  DB 2;  Length 303;
  Best Local Similarity   32.7%;  Pred. No. 1.2;
  Matches   17;  Conservative   12;  Mismatches   10;  Indels   13;  Gaps    2;

Qy       2 EDPQRR------------YEE-CQQECRQQEERQQPQCQQRCLKRFEQEQQQ 40
           || :||             ||| |:: ||:|||:: : ::|  :|   ||::
Db     235 EDKERRMQEEEEQERLREYEEQIQEKLRQEEERERQEQERRQKERERMEQER 286


RESULT  12
US-08-458-860A-2
; Sequence 2, Application US/08458860A
; Patent No. 6100390
;  GENERAL INFORMATION:
;    APPLICANT:  Frank, Glenn R.
;    APPLICANT:  Tripp, Cynthia A.
;    APPLICANT:  Grieve, Robert B.
;    TITLE OF INVENTION:  NOVEL PARASITIC HELMINTH
;    TITLE OF INVENTION:  P22U NUCLEIC ACID MOLECULES
;    NUMBER OF SEQUENCES:  17
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sheridan Ross P.C.
;      STREET:  1700 Lincoln St., Suite 3500
;      CITY:  Denver
;      STATE:  CO
;      COUNTRY:  U.S.A.
;      ZIP:  80203
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/458,860A
;      FILING DATE:  02-JUN-1995
;      CLASSIFICATION:  536
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Connell, Gary J.
;      REGISTRATION NUMBER:  32,020
;      REFERENCE/DOCKET NUMBER:  2618-13-2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  303/863-9700
;      TELEFAX:  303/863-0223
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  303 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-458-860A-2


  Query Match             29.1%;  Score 65.5;  DB 3;  Length 303;
  Best Local Similarity   32.7%;  Pred. No. 1.2;
  Matches   17;  Conservative   12;  Mismatches   10;  Indels   13;  Gaps    2;

Qy       2 EDPQRR------------YEE-CQQECRQQEERQQPQCQQRCLKRFEQEQQQ 40
           || :||             ||| |:: ||: .::: : ::|  :|   ||::
Db     235 EDKERRMQEEEEQERLREYEEQIQEKLRQEEERERQEQERRQKERERMEQER 286


RESULT  13
US-08-453-477-2
; Sequence 2, Application US/08453477
; Patent No. 5529912
;  GENERAL INFORMATION:
;    APPLICANT:  Henry, Susan A.
;    APPLICANT:  White, Michael J.
;    TITLE OF INVENTION:  Inositol-Excreting Yeast
;    NUMBER OF SEQUENCES:  2
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Carnegie Mellon University
;      STREET:  4400 Forbes Avenue
;      CITY:  Pittsburgh
;      STATE:  Pennsylvania
;      COUNTRY:  USA
;      ZIP:  15213
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  5-1/4 low density dskette
;      COMPUTER:  IBM PC or compatibles
```

```
;      OPERATING SYSTEM:  MS-DOS
;      SOFTWARE:  ASCII
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/453,477
;      FILING DATE:  30-MAY-95
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/672,355
;      FILING DATE:  20-MAR-91
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Frederick H. Colen; Mary-Elizabeth Buckles
;      REGISTRATION NUMBER:  28,061; 31,907
;      REFERENCE/DOCKET NUMBER:  93-168
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  412/288-4164
;      TELEFAX:  412/288-3063
;      TELEX:  277871
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  404 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  Protein
;    HYPOTHETICAL:  Yes
;    PUBLICATION INFORMATION:
;      AUTHORS:  Michael J. White
;      AUTHORS:  Jeanne P. Hirsch
;      AUTHORS:  Susan A. Henry
;      TITLE:  The OPI1 Gene of Saccharomyces cerevisiae, a
;      TITLE:  Negative Regulator of Phospholipid Biosynthesis,
;      TITLE:  Encodes a Protein Containing Polyglutamine
;      TITLE:  Tracts and a Leucine Zipper
;      JOURNAL:  The Journal of Biological Chemistry
;      VOLUME:  266
;      ISSUE:  2
;      PAGES:  863-872
;      DATE:  15-JAN-91
US-08-453-477-2


  Query Match             29.1%;  Score 65.5;  DB 1;  Length 404;
  Best Local Similarity   36.6%;  Pred. No. 1.6;
  Matches   15;  Conservative   10;  Mismatches   15;  Indels    1;  Gaps    1;

Qy       1 PEDPQRRYEEC-QQECRQQEERQQPQCQQRCLKRFEQEQQQ 40
           |      |  | :|: :||:::|| | ||: |::   :|||
Db     269 PHHASFHYANCEEQKVQQQQQQQQQQQQQQLLQQQLLQQQQ 309


RESULT  14
US-08-453-461-2
; Sequence 2, Application US/08453461
; Patent No. 5599701
;  GENERAL INFORMATION:
;    APPLICANT:  Henry, Susan A.
;    APPLICANT:  White, Michael J.
;    TITLE OF INVENTION:  Inositol-Excreting Yeast
;    NUMBER OF SEQUENCES:  2
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Carnegie Mellon University
;      STREET:  4400 Forbes Avenue
;      CITY:  Pittsburgh
;      STATE:  Pennsylvania
;      COUNTRY:  USA
;      ZIP:  15213
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  5-1/4 low density dskette
;      COMPUTER:  IBM PC or compatibles
;      OPERATING SYSTEM:  MS-DOS
;      SOFTWARE:  ASCII
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/453,461
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/165,182
;      FILING DATE:  02-DEC-93
;      APPLICATION NUMBER:  US07640495
;      FILING DATE:  14-JAN-91
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Frederick H. Colen; Mary-Elizabeth Buckles
;      REGISTRATION NUMBER:  28,061; 31,907
;      REFERENCE/DOCKET NUMBER:  93-167
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  412/288-4164
;      TELEFAX:  412/288-3063
;      TELEX:  277871
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  404 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  Protein
;    HYPOTHETICAL:  Yes
;    PUBLICATION INFORMATION:
;      AUTHORS:  Michael J. White
;      AUTHORS:  Jeanne P. Hirsch
;      AUTHORS:  Susan A. Henry
;      TITLE:  The OPI1 Gene of Saccharomyces cerevisiae, a
;      TITLE:  Negative Regulator of Phospholipid Biosynthesis,
;      TITLE:  Encodes a Protein Containing Polyglutamine
;      TITLE:  Tracts and a Leucine Zipper
;      JOURNAL:  The Journal of Biological Chemistry
;      VOLUME:  266
;      ISSUE:  2
;      PAGES:  863-872
;      DATE:  15-JAN-91
US-08-453-461-2


  Query Match             29.1%;  Score 65.5;  DB 1;  Length 404;
  Best Local Similarity   36.6%;  Pred. No. 1.6;
  Matches   15;  Conservative   10;  Mismatches   15;  Indels    1;  Gaps    1;

Qy       1 PEDPQRRYEEC-QQECRQQEERQQPQCQQRCLKRFEQEQQQ 40
           |      |  | :|: :||:::|| | ||: |::   :|||
Db     269 PHHASFHYANCEEQKVQQQQQQQQQQQQQQLLQQQLLQQQQ 309


RESULT  15
US-08-531-927B-2
; Sequence 2, Application US/08531927B
; Patent No. 5840491
;  GENERAL INFORMATION:
;    APPLICANT:  Kakizuka, Akira
;    TITLE OF INVENTION:  DNA Sequence Encoding the Machado-Joseph
; Patent No. 5840491
;    TITLE OF INVENTION:  Disease Gene and Uses Thereof
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Hamilton, Brook, Smith & Reynolds, P.C.
;      STREET:  Two Militia Drive
;      CITY:  Lexington
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02173-4799
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/531,927B
;      FILING DATE:  21-SEP-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
```

```
;      APPLICATION NUMBER:  JP H6-251600
;      FILING DATE:  21-SEP-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Granahan, Patricia
;      REGISTRATION NUMBER:  32,227
;      REFERENCE/DOCKET NUMBER:  ATH95-01A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617-861-6240
;      TELEFAX:  617-861-9540
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  360 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-531-927B-2


  Query Match             28.9%;  Score 65;  DB 2;  Length 360;
  Best Local Similarity   40.5%;  Pred. No. 1.6;
  Matches   17;  Conservative   11;  Mismatches    6;  Indels    8;  Gaps    2;

Qy       2 EDPQRR---YEECQQECRQQEERQQPQCQQRCLKRFEQEQQQ 40
           |: ::|   | | ||: :|||:::|| | ||:     :|:|||
Db     279 EELRKRREAYFEKQQQKQQQQQQQQQQQQQQ-----QQQQQQ 315


Search completed: March  1, 2001, 15:49:51
Job time: 396 sec
```